

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1 and 4-7 and CANCEL claim 3 in accordance with the following:

1. (CURRENTLY AMENDED) An optical wavelength division multiplexed transmission system in a bidirectional optical wavelength division multiplexed transmission system for transmitting an upstream optical signal and a downstream optical signal along a single line,

said optical wavelength multiplexed transmission system comprising:

a first transmitting unit setting the upstream optical signal to a first band and transmitting the upstream optical signal set to the first band, and band;

a second transmitting unit setting the downstream optical signal to a second band which is different from the first band and transmitting the downstream optical signal set to the second band; and

a distributed amplifier unit having a first pumping light source for pumping only the upstream optical signal set to the first band, and a second pumping light source for pumping only the downstream optical signal set to the second band,

wherein said first pumping light source amplifies the upstream optical signal set to the first band through backward pumping, and said second pumping light source amplifies the downstream optical signal set to the second band through backward pumping.

2. (ORIGINAL) The optical wavelength division multiplexed transmission system according to claim 1, wherein said distributed amplifier unit performs distributed Raman amplification.

3. (CANCELLED)

4. (CURRENTLY AMENDED) The optical wavelength division multiplexed transmission system according to claim 1, wherein each of said first pumping light source and said second pumping light sources includes source respectively comprise a plurality of light sources, each of said plurality of light sources having a different wavelength.

5. (CURRENTLY AMENDED) The optical wavelength division multiplexed transmission system according to claim 1, further comprising:

a wavelength-selective multiplexing/demultiplexing unit, located at one or both ends of said distributed amplifier unit, ~~for~~ separating the upstream and downstream optical signals from each other and combining the separated upstream and downstream optical signals with each other; and

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contd.*
a discrete amplifier unit amplifying each of the upstream and downstream optical signals respectively set to the first and second bands.

6. (CURRENTLY AMENDED) The optical wavelength division multiplexed transmission system according to claim 1, further comprising:

a multilayer thin film filter unit, located at one or both ends of said distributed amplifier unit, ~~for~~ separating the upstream and downstream optical signals from each other and combining the separated upstream and downstream optical signals with each other; and

a discrete amplifier unit amplifying each of the upstream and downstream optical signals respectively set to the first and second bands.

7. (CURRENTLY AMENDED) The optical wavelength division multiplexed transmission system according to claim 1, further comprising:

a circulator unit, located at one or both ends of said distributed amplifier unit, ~~for~~ separating the upstream and downstream optical signals from each other and combining the separated upstream and downstream optical signals with each other; and

a discrete amplifier unit amplifying each of the upstream and downstream optical signals respectively set to the first and second bands.